

## Recombinant Rhesus macaque CD4 Protein, His-tagged

Cat. No. CD4-158R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rhesus macaque CD4 protein with His tag was expressed in HEK293.
<b>Species</b>	Rhesus macaque
<b>Source</b>	HEK293
<b>ProteinLength</b>	458
<b>Description</b>	<p>This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	42.3 kDa
<b>AA Sequence</b>	MNRGIPFRHLLLVLQLALLPAVTQGKKVVLGKKGDTVELTCNASQKKNTQFHWKNS

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NQIKILGIQGSFLTKGPSKLSDRADSRKSLWDQGCFSMIKLNKIEDSDTYICEVENKK  
EEVELLVFGLTANS DTHLLEGQSLTLTLESPPGSSPSVKCRSPGGKNIQGGRTISVP  
QLERQDSGTWTCTVSQDQKTVEFKIDIVVLA FQKASSTVYKKEGEQVEFSFPLAFTL  
EKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTL P  
QALPQYAGSGNLTALAEAKTGKLGHEVNLVVMRATQFQENLTCEVWGPTSPKLTLS  
LKLENKGATVSKQAKAVVWLNPEAGMWQCLLSDSGQVLLESNIKVVPTWPTPVQP  
MALIVLGGVAGLLLFTGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCCQCPHRFQK  
TCSPI

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** CD4 CD4 molecule [ *Macaca mulatta* (Rhesus monkey) ]

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<b>Official Symbol</b>	CD4
<b>Synonyms</b>	CD4; CD4 molecule; T-cell surface glycoprotein CD4; CD4 antigen; T-cell surface antigen T4/Leu-3;
<b>Gene ID</b>	713807
<b>mRNA Refseq</b>	NM_001042662
<b>Protein Refseq</b>	NP_001036127
<b>UniProt ID</b>	P16003

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